

Product Texts

Polyether block amide **Pebax® 4533 SA 01 resin** is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade is specially designed to food uses.

Main applications:

- Flexible injected parts
- Silent gears
- TPU processing aid
- Note: this grade is not recommended by Arkema for usage in medical applications. For such applications Pebax® SA 01 MED should be used

Packaging:

This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

Shelf Life:

Two years from the delivery. For any use above this limit, please refer to our technical services.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	88 / 81	MPa	ISO 527
^[C] Stress at 50% strain	9 / 9	MPa	ISO 527
^[C] Strain at break	>50 / >50	%	ISO 527
^[C] Shore A hardness	90 / *	-	ISO 7619-1
^[C] Shore D hardness	41 / *	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	147 / *	°C	ISO 11357-1/-3

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.4 / *	%	Sim. to ISO 62
^[C] Density	1010 / 1010	kg/m ³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	60 - 70	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	200 - 270	°C	-
Mold temperature	10 - 30	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Certifications

Food contact

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Special Characteristics

Light stabilized or stable to light, Heat stabilized or stable to heat

Other text information**Injection molding****Processing conditions:**

- Typical melt temperature (Min / Recommended / Max) : 200°C / 240°C / 270°C
- Typical mold temperature : 10 – 30°C
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 60-70°C

Other extrusion**Processing conditions:**

- Typical melt temperature (Min / Recommended / Max) : 210°C / 220°C / 230°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 60-70°C.